

Table 2S: Individual pair-wise correlation coefficients between independent and dependent variables with corresponding p values for condyles, trochlea upper and trochlea lower. Values highlighted in green denote significant correlations between *in vivo* parameters - ICRS score, O’Driscoll score, %Saf-O RT (repair tissue) and %Coll-II RT (repair tissue) – and *in vitro* parameters including cell yield, CFU-f, pellet size, Saf-O pellets and Coll-II pellets. (Saf-O and Coll-II denote % Saf-O and % Coll-II respectively).

	ICRS Score		ODriscoll		Saf-O RT		Coll-II RT	
Condyles								
Cell Yield	-0.55		-0.49		0.15		0.65	
CFU-f	0.1		0.44		0.75	0.03	-0.33	
Pellet Size	0.06		0.45		0.03		-0.7	0.05
Saf-O pellets	0.77	0.02	0.25		-0.07		-0.28	
Coll-II pellets	-0.02		0.5		0.6		-0.3	
Trochlea upper								
Cell Yield	0.68		-0.09		0.74	0.03	0.86	0.0059
CFU-f	0.81	0.01	0.52		0.39		0.65	
Pellet Size	0.76	0.02	0.35		0.33		0.77	0.02
Saf-O pellets	-0.03		-0.09		0.53		0.08	
Coll-II pellets	0.7	0.05	0.22		0.36		0.68	
Trochlea Lower								
Cell Yield	0.59		0.63		0.37		0.41	
CFU-f	0.75	0.03	0.48		0.36		0.63	
Pellet Size	0.7	0.05	0.31		0.31		0.75	0.03
Saf-O pellets	-0.12		0.49		-0.37		-0.39	
Coll-II pellets	0.65		0.1		0.41		0.53	